

## Grade 8 Review

Mixed #  
 $2\frac{1}{2}$  - fraction  
 Whole number  
 Improper Fractions  
 $\frac{11}{5}$   
 Fraction  $\frac{1}{2}$  numerator  
 denominator

Conversion  
 $2\frac{1}{5} \Rightarrow \frac{11}{5}$   
 $3\frac{1}{3} \Rightarrow \frac{10}{3}$

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$\frac{12}{7} \div \Rightarrow 1\frac{5}{7}$   $\frac{12}{5} \Rightarrow 2\frac{2}{5}$

Reducing  
 $\frac{4}{6} \Rightarrow \frac{2}{3}$  Lowest Terms

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$\div \frac{3}{4} \Rightarrow 0.75$  terminating decimal  
 $\frac{2}{3} \Rightarrow 0.\overline{667}$  repeating decimals  
 $0.\overline{6}$

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Decimal - Fraction  
 $0.125 \Rightarrow \frac{125}{1000} \Rightarrow \frac{1}{8}$   
 $0.63 \Rightarrow \frac{63}{100}$   
 $1.36 \Rightarrow \frac{136}{100} = \frac{68}{50} = \frac{34}{25}$   
 $\frac{5}{40} \Rightarrow \frac{1}{8}$  unit fraction

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## Multiply Fractions (Lowest Terms)

$\frac{2}{3} \times \frac{3}{5} = \frac{6}{15} \Rightarrow \frac{2}{5}$   
 $\frac{2}{3} \times 1\frac{1}{6} =$   
 $\frac{2}{3} \times \frac{7}{6} = \frac{14}{18} \Rightarrow \frac{7}{9}$

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## Dividing Fractions (reciprocal)

$\frac{2}{3} \div \frac{1}{6} \Rightarrow \frac{2}{3} \times \frac{6}{1} = \frac{12}{3} = 4$   
 $\frac{3}{5} \div \frac{2}{3} \Rightarrow \frac{3}{5} \times \frac{3}{2} = \frac{9}{10}$

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**Addition & Subtraction** (common denominator)

$$+ \frac{2}{3} + \frac{4}{5}$$

$$\frac{10}{15} + \frac{12}{15} = \frac{22}{15}$$

$$\frac{2}{3} - \frac{4}{5} = \frac{10}{15} - \frac{12}{15} = -\frac{2}{15}$$

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$$\frac{2}{3} - \frac{4}{5}$$

$$\frac{10}{15} - \frac{12}{15} = -\frac{2}{15}$$

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**MPM 1D Opener**

Convert  
Improper Fraction  
 $3 \frac{2}{3} \Rightarrow$   
Decimal  $\rightarrow$  Fraction  
 $0.15 \Rightarrow$

Evaluate  
 $\frac{1}{3} + \frac{2}{5} \Rightarrow$   
 $\frac{3}{4} \times \frac{2}{3} \Rightarrow$   
 $\frac{3}{5} \div \frac{1}{6} \Rightarrow$

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**MPM 1D Opener**

Convert  
Improper Fraction  
 $3 \frac{2}{3} \Rightarrow \frac{11}{3}$   
Decimal  $0.15 \Rightarrow \frac{15}{100} = \frac{3}{20}$

Evaluate  
 $\frac{3}{4} \times \frac{2}{3} \Rightarrow \frac{6}{12} \Rightarrow \frac{1}{2}$   
 $\frac{3}{5} \div \frac{1}{6} \Rightarrow \frac{18}{5}$   
 $\frac{1}{3} + \frac{2}{5} \Rightarrow \frac{5}{15} + \frac{6}{15} \Rightarrow \frac{11}{15}$

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**Integers**

**Multiplication (Like Terms = +ve)**  
 $(+3) \times (+5) = +15$   
 $(-3) \times (-5) = +15$

**(Different Terms = -ve)**  
 $(+6) \times (-3) = -18$   
 $(-6) \times (+2) = -12$

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**Division** **Like Terms- +ve**  
 $(+15) \div (+3) = +5$   
 $(-16) \div (-2) = +8$

**Different Terms -ve**  
 $(+9) \div (-2) = -4$   
 $(-12) \div (+3) = -4$

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### Addition Integers

**Same Sign**

$(+8) + (+2) = +10$  Add Terms  
keep the sign

$(-8) + (-6) = -14$

**Different Signs**

$(+9) + (-2) = (+6)$  Subtract Terms  
Keep sign of the larger

$(-6) + (+3) = (-3)$

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### Subtract Terms

(Add the Opposite)

$(+3) - (+2) = (+1)$

$(-3) + (+6) = (+3)$

$(-6) + (-4) = (-10)$

$(+2) + (+6) = +8$

$(+3) + (+3) = +6$

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### Integers

p 18 q.1-5 (a, c, e, g)

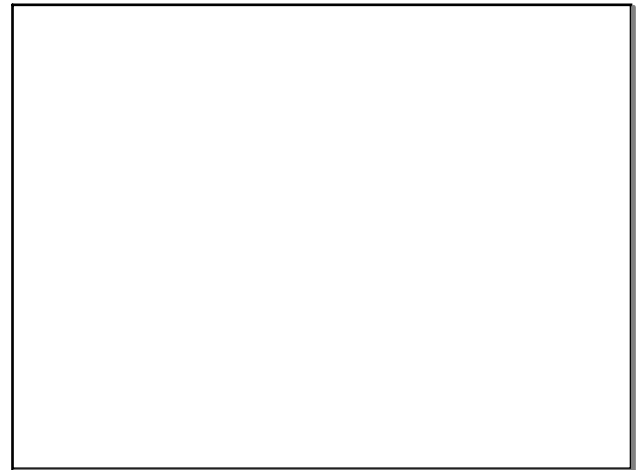
p 19 q.1-5 (ace)

6 a,b  
7 a,e

### Fractions

p. 14 q. 3 ace, 4 ac, 6ac,  
7ac

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